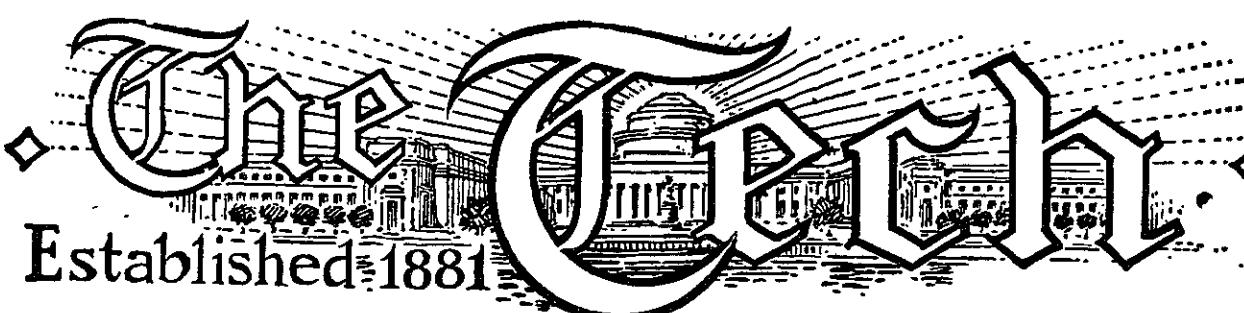


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Vol. 37. No. 64

CAMBRIDGE, MASS., THURSDAY, NOV. 22, 1917

Price Three Cents

## SECOND POW-WOW TO BE HELD SUNDAY

Professor Cram, of Architectural Department to Speak Upon "Venice and Its Importance in the War"

### REFRESHMENTS TO BE SERVED

Ralph Adams Cram, head of the Department of Architecture of the Institute, will speak at next Sunday's Pow-wow upon "Venice and Its Importance in the War." The suitability of such a subject is obvious at this time, and Professor Cram is exceptionally well qualified to present this topic.

Professor Cram is, perhaps, best known through the distinction of having designed the Cathedral of Saint John the Divine, which when completed will be the foremost one in the world. Saint Thomas's on Fifth Avenue, New York, was his work.

Professor Cram is a student of history and has paid especial attention to the mediaeval ages and to Venice and has a deep insight into the subject.

The degree of Doctor of Letters which he has received is the highest that can be conferred in this country. He is a most entertaining speaker and the committee in charge of the Pow-wow is gratified at having secured him.

As usual refreshments will be served, and in addition there will be music. The meeting will be held in the North Dining Room. The committee is judging the appreciation with which the Pow-wows are received by the number attending, and should the size of the crowds at the next one or two indicate it to be worth while, men of worldwide prominence will speak on these Sunday afternoon occasions.

Ex-President Taft, Colonel Roosevelt, and others of almost equal note may speak at these gatherings if a sufficient number of the men attend to indicate that they are in favor of inviting them.

Kenneth Reid '18, has recently resigned from the chairmanship of the committee and has been succeeded by E. A. Grunsfeld '18. S. J. Hays '19, is the other member.

### TECH-TECHNIQUE GAME TO BE HELD SATURDAY

Struggle This Year Promises to Surpass All Others

The annual death struggle on the gridiron between The Tech and the techniquers is scheduled to take place this Saturday afternoon on the Field at 2:15 o'clock. All members of the freshman class must be there to witness this mightiest of football contests. Even with a degree from the State artistically sealed out on a piece of the proverbial sheepskin, no man's education is complete without following with breathless amazement the performances of the intellectually profound and versatile pigskin warriors. Hence, although ye know it not, ye first yearlings, it is for your own good that your presence is required.

But two days yet remain for the opposing hosts to organize—for The Tech, the time is ample and plenty; for the techniquers, from now until eternity would form but a mere drop in the bucket. The reader will notice that we do not say the Judgment Day instead of eternity, for will not Saturday be the Judgment Day for the techniquers? Yea, verily. The Tech would make the casual observation that the techniquers have but two days in which to complete the Technique 1919.

Seeret practices at dawn and behind closed gates have been held on the Field regularly by The Tech during the past week. For the most part harmony reigns within The Tech office. We are lone in our opinion as to the outcome of the struggle. There is, however, slight dissension as to the proper length of the lead pipe to be used in the game. We might add, in passing, that owing to the quantity of this luxury to be used, The Tech has succeeded in obtaining wholesale prices, thereby avoiding bankruptcy.

### President Maclaurin To Call Convocation Soon

In view of the uncertainty as to the meaning of the recent ruling with respect to enlistments, President Maclaurin has telegraphed to the Secretary of War asking for an interpretation as applied to students at the Institute. As soon as a reply is received, he will call a convocation of the student body. The call will probably be on short notice before the next issue of The Tech, so the entire student body should endeavor to learn just when this convocation will be held.

### WALKER CLUB TO HOLD ANNUAL RECEPTION IN WALKER MEMORIAL

The annual reception for all students entering Technology from other colleges will be given this evening by the Walker Club at 8:30 p.m. in the North Dining Room of the Walker Memorial. Professor W. T. Sedgwick, head of the Biology and Public Health Department, will be the principal speaker.

At a recent meeting of the Club, C. J. Parsons '19, was elected president to replace W. Frazier '18, who has left the Institute to enlist in the aviation school.

### DR. HESSE TO SPEAK BEFORE CHEMICAL SOCIETY

Dr. B. C. Hesse, of the General Chemical Co., will address the Chemical Society at a meeting to be held at 7:30 tonight in Room 2-190 on the subject "Doing Our Bit." The talk will include the work of the chemists of the country to aid the Government by assisting in the manufacture of poisonous gases, powder, and other materials.

Dr. Hesse has had considerable experience in the science of the present times, especially in the manufacture of dyestuffs, in which he has made extensive tests and prepared a large number of original formulas for the dyes which Germany supplied to this country previous to the war.

### WRESTLING TEAM HAVING DIFFICULTY IN GETTING MEETS

The wrestling team's prospects for outside meets this year are rather poor. Many large colleges with whom Technology had meets in the past have suspended athletics this year on account of the war. There is much fine material at the Institute, however, and many matches will be held among the men to keep them in trim.

The new men have been given a list of sixty-five grips and holds to learn. As soon as they have become proficient in this work, matches will be held and teams chosen.

D. McFarland '18, has been elected manager of the team to take the place of J. M. Bugbee '18, who has resigned.

## HARRIER'S IN BIG MEET

### To Run For I. C. A. A. A. Championship Saturday

Ten members of Technology's cross-country team leave tonight to run in the I. C. A. A. A. meet to be held in Van Cortlandt Park, New York City, Saturday afternoon at 3:00 o'clock.

The team has beaten the harriers of Harvard and Dartmouth, winning the New England Intercollegiate Championship. With such a record the team has a fine chance of winning in New York. This is the first year that Technology has had such good prospects of a victory.

Coach Kanaly suggested, "that if a send-off could be given the fellows at Back Bay Station tonight at 6:05, it would show them that the Institute was interested in the team and would do much toward helping the fellows to win."

The names of the men composing the team follow (freshmen were not eligible for this meet): Halfacre, Herzog, McCarter, Dorr, De Zubria, Dike, Owens and Rimbach. Coach Kanaly, Assistant Manager Talcott and Dr. Johnson will accompany the team.

## AUTHOR CHOSEN FOR TECH SHOW

E. D. Harrington '18, Is Selected By Board of Judges — Lyric Competition Starts To-day — Mr. Duncan Will Be Coach

### TITLE TO BE ANNOUNCED LATER

E. D. Harrington '18, has been announced by the Tech Show management as the author of the 1918 Tech Show, and Charles J. Parsons '19, has received honorable mention. The other men who submitted scenarios were D. W. MacArdle '18, John Meader '19, J. G. Lee '21, and W. C. Line '20.

Harrington, the successful writer, is a member of the Institute Musical Clubs, and assistant leader of the Banjo Club, and last year took one of the leading parts in the Show. His home is in Elkhorn, Wis., and he graduated from Beloit College, Wisconsin, in 1916, receiving the degree of Bachelor of Science.

The book itself is one of the best



ELLIOTT D. HARRINGTON '18  
Author of Tech Show 1918

that has ever been selected for Tech Show, and without doubt this year's Show will be as good if not better than those of previous years.

Mr. William Duncan, who coached last year's Show and who will coach the coming Show was one of the judges who selected the book, and he is enthusiastic over the possibilities which it offers. The title for the Show has not yet been decided upon but it is hoped that it will be known definitely in a few days.

The competition for the lyrics and music of the Show opens today, and all men who are interested in writing either words or music for the songs will meet in the Tech Show Office in the Activities Building at 5:30 today. At this time the details of the work will be explained, and every contestant will receive an outline copy of the play which will give him an idea of lyrics desired. The management is desirous of having a large number of lyrics and songs to select from and urges new men to try out. E. P. Collins '18, who wrote most of the music for last year's Show, will be on hand to give a few suggestions and answer any questions that may be asked. Other men connected with the Show will explain various parts of the competition. It is absolutely necessary that all men intending to do any writing for Tech Show be present at this meeting.

### NEARLY \$8,000 SUBSCRIBED IN Y. M. C. A. WAR FUND DRIVE

The Y. M. C. A. War Fund Campaign conducted at Technology by the T. C. A. was brought to a close last Monday evening at 6:00 o'clock. Starting with a nucleus of \$900 subscribed by the original seventy solicitors, the total contribution from the Institute was increased to nearly \$8,000.

The drive lasted an entire week, during which time the undergraduates and the faculty were canvassed. Over 900 students subscribed to the War Fund.

### ELECTRICALS TO VISIT PUMPING STATION TODAY

The Student Branch of the American Institute of Electrical Engineers will take the first trip to the Chestnut Hill Pumping Station this afternoon. This station has the largest and most complete equipment of any pumping plant in New England and handles the entire flow of fresh water supplied to Metropolitan Boston. The trip will be of special interest on account of the various types of mechanical equipment and devices in constant use at the plant, from the huge turbines used to pump the water to the extensive sand filters.

Those going on today's trip will meet in the lobby at 2:00 o'clock. The second trip will be taken next Monday.

The student branch has obtained a special permit to take twenty men on each trip, and those who wish to go should leave their names at the office in Room 10-203.

The radio classes of the student branch were started last Monday morning with a total attendance of about fifty. The advanced class comprises those who can receive at least eight words per minute and have an elementary knowledge of the theory of radio telegraphy, while the other is starting with the elements of wireless. Later on in the year the radio classes will be given lectures by prominent members of the faculty and student body. These meetings are held every morning from 8:30 to 9:00 o'clock. At present only members may attend the wireless sessions.

### MR. FAY ADDRESSES THE ARCHITECTURAL SOCIETIES

#### Co-operation Between Architects and Engineers Necessary

Last Tuesday evening Mr. F. H. Fay, of Fay, Spofford and Thorndike Co., addressed the first meeting of the Architectural Society and the Architectural Engineering Society in the Common Room at Rogers.

Mr. Fay spoke of the necessity of co-operation between architects and engineers and showed lantern slides to illustrate how they have co-operated in building elevated structures, subways, water-towers, dams, and bridges.

This combined meeting of the two societies marked the opening of the Common Room for the first time. The room will serve as a "Union" for architects as soon as it is completed.

## SENIOR DINNER

### Annual Assemble to Be Held on December 1

Owing to the custom established in the dark ages of having the Seniors assemble in quiet convention for the sole purpose of imbibing the excellent repast furnished, and gathering together for one of the few social functions left for the class, be it known to all good and worthy members of the Class of 1918 that on December 1 you are summoned to meet together that you may eat, drink and be merry.

The rendezvous will be the Walker Memorial; the date, December 1; the hour, 6:00 o'clock.

You must be a live Senior and attend! Why give excuses? Be there!

**ALL-TECHNOLOGY PHOTOGRAPHS**  
The All-Technology photographs which were ordered may now be obtained at the Technology Branch. The price is \$1.50 subject to the regular discount given to members of the Cooperative Society.

## DORMITORY DANCE PLANS COMPLETED

Harrington's Jazz Orchestra to Furnish Music — Programs Obtainable Thursday Evening from Committee

### IS FIRST AFFAIR OF ITS KIND

Plans for the dormitory dance to be held in the Walker Memorial Saturday, November 24, are being rapidly completed. The dance committee promises that the affair will be a decided success. Working towards this end, they have secured the services of "Dick" Harrington's renowned "Jazz" Orchestra. The hall will be tastefully decorated by a special committee in charge. The wives of several members of the Faculty have very kindly consented to act as chaperones.

The main purpose of this informal dance is to present an opportunity for the dormitory men to become better acquainted. This has been impossible this year because of the difficulty of obtaining the Walker Memorial. If the first dance proves successful, it is expected that several more of the same order will be given during the coming winter.

For a time it was feared that this affair would conflict with the reception given by President and Mrs. Maclaurin to the Seniors and Sophomores on the same evening. Mrs. Maclaurin, however, has very thoughtfully invited all those attending the dance to be present at the second reception on December 1.

Invitations have been issued to all the fraternities and a good attendance is expected from them. Everyone coming to the dance must be supplied with a programme as they are to be used as cards of admission. These will be distributed Thursday evening and may be obtained from N. D. Cennier, '19. The dancing will start at 8:30 o'clock.

### MECHANICALS TO VISIT TURBINE PLANT TOMORROW

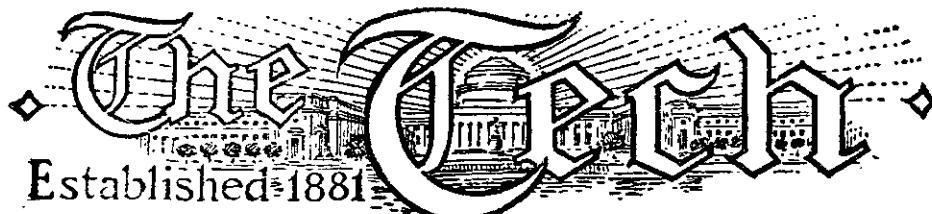
The Mechanical Engineering Society will visit the Turbine Department of the General Electric Company's plant at West Lynn, Mass., tomorrow afternoon for an inspection of the equipment and the methods employed there. The party is limited to twenty-five members. Those in charge of the trip request that all who intend to make the trip meet at the Technology Branch promptly at 1:00 o'clock.

### CALENDAR

Thursday, November 22, 1917  
1:15 P.M.—Freshman Tug-of-War Picture at Notman's Studio, 4 Park Street.  
2:00 P.M.—Trip of Student Branch of A. I. E. E. to Chestnut Hill Pumping Station. Meet in Lobby of Building 10.  
5:00 P.M.—Meeting of Institute Committee.  
5:30 P.M.—Lyric Competition for Tech Show Opens. Show Office.  
7:00 P.M.—Chemical Society Meeting in Room 2-190.  
8:30 P.M.—Walker Club Reception in North Dining Room of Walker Memorial.

Friday, November 23, 1917  
1:00 P.M.—M. E. Society Trip to Turbine Department of G. E. Co. Meet at Co-op.  
4:00 P.M.—M. I. T. Geological Conference in Room 4-345.  
Saturday, November 24, 1917  
2:15 P.M.—Tech-technique Football Game. Tech Field.  
8:30 P.M.—Dormitory Dance, Walker Memorial.

Sunday, November 25, 1917  
4:00 P.M.—Pow-Wow. North Dining Room, Walker Memorial.



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Published twice a week during the college year by students of the Massachusetts Institute of Technology.

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Although communications may be published unsigned if so requested, the name of the writer must in every case be submitted to the editor. The Tech assumes no responsibility, however, for the facts as stated nor for the opinions expressed.

The Editor-in-Chief is always responsible for the opinions expressed in the editorial columns, and the Managing Editor for the matter which appears in the news columns.

#### IN CHARGE THIS ISSUE

C. B. Capps '20.....Night Editor  
Louis B. Harris '20.....Assistant Night Editor

THURSDAY, NOVEMBER 22, 1917

#### OUR PROBLEM

THE recent announcement that after December 15 further enlistments will be impossible and the approach of the second draft in its modified form have caused a wave of excitement in the undergraduate body, especially in the Senior class. The ever-present question is "What shall I do?" Of course there is a somewhat selfish motive in this attitude, but that is only natural. On the whole, however, we must believe that the men want to serve where they may serve best and that is usually in that line of service for which they are prepared. Whether or not a man will be able to serve where he wishes if he remains at the Institute is something which cannot be stated offhand.

We are not loathe to advise those Institute men who have the opportunity of getting commissions or of obtaining berths for which they are fitted to avail themselves of it. A degree is the one thing for which all Technology men are working, but a postponement of its attainment may be advisable.

There is no need, however, of rushing into the service merely to avoid the impending draft. Numerous Technology men were called in the first draft. In most cases their training served them well, for there are few who were drafted who are not now doing some work for which they are fitted. The government is undoubtedly a slow machine, but in the end satisfactory results are usually obtained. A Technology man can serve in the ranks as well as any other, but probably will serve better in work which requires the technical training that he has, and the government seems to have recognized this. Surely past occurrences are enough to reassure anyone and the man who tries to dodge the draft is acting not only foolishly but also unpatriotically.

#### FAILURE.

THE showing which Technology made in the recent campaign for the Y. M. C. A. War Work Fund was deplorable. The number of undergraduates subscribing was slightly over nine hundred, and these men, together with the Faculty, have pledged some seventy-nine hundred dollars. The amount raised at Harvard in a similar campaign was about three times this sum. Neither will our figures bear comparison with those of other colleges. This is not due to the fact that the subscriptions were unusually small, but rather to the fact that only a little more than half of the student body gave anything. The conclusions are obvious. The Institute undergraduates are in a state of lethargy from which apparently nothing will arouse them, not even when their failure to "look alive" casts a stigma which will be hard to live down on Technology.

#### THE SENIOR DINNER.

THE Senior Dinner will be held on December 1 at the Walker Memorial. This year the dinner will have a peculiar significance for the Seniors more so than any other previous one. This dinner will provide probably the last opportunity which the Class of 1918, already depleted in numbers, will have of meeting in its present entirety, for undoubtedly the majority of the Seniors will be in the service before long, possibly before the beginning of the next term. The proverbial jollification of a Senior Dinner will not be absent, but there will be added a touch of seriousness. Every Senior should realize the special import of this assembly and do his utmost to attend this dinner of dinners.

## NOTICES

SENIOR PHOTOGRAPHS—Technique 1919 urges all Seniors to make appointments at once to have their pictures taken for the Senior Portfolio. The pictures must be in by December 1.

#### M. I. T. GEOLOGICAL CONFERENCE

The second meeting of the year 1917-1918 will be held tomorrow afternoon at 4:00 o'clock in Room 4-345. Professor Lindgren will speak on the "Geological Observation in Chile and South America."

FACULTY NOTICE—First year students submitting stories for the Monthly Prize Contest may count them in place of an English theme.

Professor A. T. Robinson.

1921 TUG-OF-WAR—The picture of the freshman tug-of-war team will be taken this afternoon at 1:15 o'clock at Notman's Studio, 4 Park Street. All members will bring their jerseys.

INSTITUTE COMMITTEE—There will be a meeting of the Institute Committee this afternoon at 5:00 o'clock.

#### OFFICIAL FROM THE M. I. T. Committee for National Service

JAMES W. ROLLINS '78, Chairman

#### WASHINGTON BUREAU 908 Union Trust Building

RAYMOND W. FERRIS '08, Secretary

A direct means of communication between the Technology and the National Government. If there is anything you wish to know in Washington, write to the Technology Bureau.

#### C. E. EXAMINATIONS FOR NAVY

A telegram from the Washington Bureau received yesterday requested that the following article from the issue of November 17 of the "Army and Navy Journal" be published for the information of the Alumni.

An examination will be held at the Bureau of Yards and Docks, Navy Department, Washington, D. C., to establish a list of eligibles for enrollment in the Civil Engineer Corps of the United States Naval Reserve Force. This ex-

amination will close at noon of December 31, 1917. To compete in this examination it is only necessary for the candidate to address a letter to the Reserve Examining Board giving full information as to his education and experience with testimonials and references. A descriptive circular giving detailed information of the requirements for this examination is about ready for distribution and will be sent to interested parties upon request to the Chief of the Bureau of Yards and Docks, Navy Department, Washington, D. C. Candidates recommended for enrollment will be authorized to appear before the nearest medical officer of the United States Navy for physical examination. Those found to be physically unfit will not be enrolled. Candidate must be an American citizen and must be an engineer in active practice of the profession of civil, electrical or mechanical engineering or some business directly connected with these professions.

The age and experience requirements are for Ensign, not less than twenty-four years of age, with not less than two years of active professional practice; for Lieutenant (junior grade), not less than twenty-seven years of age, with not less than five years of active professional practice; for Lieutenant, not less than thirty years of age, with not less than seven years of active professional practice during at least three years of which candidate must have had responsible charge of work as principal or assistant. Those now in the Naval Reserve Force, civilians and anyone who is now in the Army, either volunteer or drafted, including those directed to appear before an exemption board, may make application, but those in the Army, either volunteer or drafted, must obtain their discharge before they can be enrolled. Enrolments are for a period of four years or during the existence of a war or national emergency. Except during a war or national emergency officers are only given active duty at their own request and then for short periods. Pay and allowances of officers amount to approximately, as follows: Ensign, \$2,100 per annum; Lieutenant (junior grade), \$2,500 per annum; Lieutenant, \$3,100 per annum. There is an additional allowance of \$150 per annum for uniforms."

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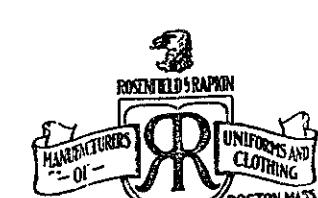
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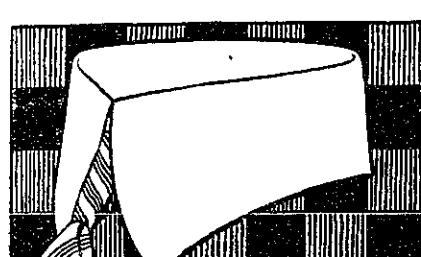
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### Technology Men in War Service

The Tech wishes to print the names of Technology men in War Service, whether in a military or industrial capacity, together with the branch of such service with which they have allied themselves.

Notification of any corrections or changes in the information given in this column will be appreciated. Address any information of this character to the Managing Editor, The Tech, Massachusetts avenue, Cambridge, Mass.

**Class of 1874**  
W. T. BLUNT, Asst. Engr., Engr. Corps.

**Class of 1889**  
W. M. BEAMAN, Major, E. C., U. S. R.

**Class of 1890**  
N. H. BROWNELL, Commander, C. E., U. S. N.

**Class of 1893**  
C. E. BELCHER, Q. M., Co. B, Mass. N. R.

**Class of 1895**  
A. AMES, Major, New York, C. A. C. D. W. BURKHALTER, Capt., E. O. R. C.

**Class of 1896**  
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D. M. BATES, Major, Ord., Supply Div.

**Class of 1897**  
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**Class of 1905**  
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P. A. BLAIR, Technical Asst., Ord. Bureau, U. S. N.

J. S. BROWN, JR., 1st Lieut.

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F. R. BATCHELDER, 1st Class Priv., Signal R. C., 401st Teleg. Bureau, Supply Detach't.

H. C. BLAKE, 5th Co., O. T. C., E. O. R. C.

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E. L. BROWN, 1st Lieut., E. O. R. C.

**Class of 1909**  
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H. D. BLEKNOP, 301st Inf., Headquarters, N. A.

T. B. BLACK, Cadet, 1st Battery, Art.

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**Class of 1911**  
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**Class of 1912**  
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**Class of 1920**  
W. P. SAMMET, Battery E, 301st Field Art., Camp Devens, Ayer.

### COMPLETE TEXT OF ARMY AND NAVY COMPENSATION BILL

To offset much of the misunderstanding concerning the "Service Compensation Bill," the bill in full is printed for the benefit of correcting any erroneous impressions that may exist at the present time.

#### Allotments and Family Allowances

Every enlisted man in the country's military and naval forces is required to give a certain allotment of his pay, which may not be more than half his pay nor less than \$15, for the support of his wife, children, or former divorced wife who has not remarried and to whom alimony has been decreed. On the written consent of a wife or former wife divorced, supported by evidence satisfactory to the bureau, that she can support herself and the children in her custody, the allotment for her and for such children may be waived.

In certain cases where a man's pay is not sufficient, he may apply in writing to the bureau for a monthly family allowance. The amount of this allowance varies with the size of the family, but may not exceed \$50 a month. It is paid from the man's enlistment to his death in the service, or to one month after his discharge, but not longer than one month after the termination of the present war emergency. No allowance will be paid for any period preceding November 1, 1917.

#### Compensations

The government will pay compensations to the wife, widowed mother, or for the children of any commissioned officer, or enlisted man, or any member (female) of the Army or Navy Nurse Corps, for the death or disability resulting from any injury suffered or disease contracted while in service, except when such injury or disease shall have been caused by willful misconduct. The compensation in case of death ranges from \$20 a month for one child, if there be no widow, upward according to the number of dependents. The compensation to a widow continues until her death or remarriage, for a child until he or she reaches the age of eighteen or marries, and for a widowed mother until her death. In case of total disability, the compensation ranges from \$30 a month, when the man has no wife or child living, to \$75 a month, when he has a wife and three or more children living. If the man has a widowed mother dependent upon him for support, \$10 per month will be added to any other compensation granted him. When the injured person is so helpless as to need constant attendance, additional compensations not exceeding \$20 per month may be paid, or in the case of his losing both feet, or both hands, or becoming totally blind or helpless and permanently bedridden, he shall receive \$100 per month, but no allowance for nurse or attendant. In case of partial disability, the monthly

(Continued on page 4)

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## COMPENSATION BILL

(Continued from page 3)

compensation shall be a percentage of the compensation payable in the case of total disability, equal to the degree of reduction in earning capacity resulting from the disability, but no compensation shall be payable for a reduction in earning capacity rated at less than ten per cent.

## Insurance

The United States will grant insurance against death or total and permanent disability to any person in the military or naval service of the country. The insurance is offered in multiples of \$500 from \$1000 to \$10,000 and without medical examination. The month-premiums for \$5000 range from \$3.15 for a person fifteen years of age to \$16.75 for a person sixty-five years of age. These premiums may be deducted from the pay of the insured, if he or she so desires. The insurance will be payable in monthly installments during the total and permanent disability of the insured, or if death occurs without such disability, for 240 months, or if death occurs after such disability, for a sufficient time after death to make a total of 240 months. Every person in active service on or after April 6, 1917, has been automatically insured for 120 days from that date. This insurance is payable in monthly installments of \$25, in case of total and permanent disability or death. All insurance must be applied for within 120 days after enlistment.

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**JOYS OF PAY DAY IN FRANCE DESCRIBED BY ALUMNUS—TELLS OF AIR FIGHTS WITH HUNS**

September 5, 1917.

It is three days once more between my letters but I went on guard Monday night and was on all day yesterday. Last night I was too tired to write. A good night's sleep has made me fit again and as soon as my fingers get warm enough to really hold the pen, I'll be all O. K. We are having some wonderful fall weather, clear, cold nights and bright warm days, just the sort that you are probably getting back home.

Yesterday proved to be a big day in our dull existence. The paymaster finally put in his appearance and gave us our July money in francs, at 5.70f on a dollar. If you could have seen that mob trying to figure out how much they received, what it was worth, etc. you would have passed out laughing. Some of them haven't figured it out yet. However having once satisfied themselves that they had received their just deserts, the parade for the canteens started, and all the afternoon the boys were coming back past the guard house laden with 7 lb. cakes, at a franc a pound, cigarettes, candy, soap and all the other necessities of life. For once they had enough to eat. The day was further brightened by the news that we were soon to leave, probably no more than twenty-four hours, but even that would help a great deal. I'm looking forward to sitting down to a regular meal, with clean dishes, napkins etc. You can plainly see that my pleasures now are physical not mental. I can conceive of nothing in France, more enjoyable than a good hotel with a regular bed, a white tiled bath room and food that is as it should be.

We have been more forcibly impressed with the nearness of the war of late; for three days we have been spectators of battles between German scout planes and the allied anti-air craft guns, running fights, about once a day, with the Hun planes on the short end. The first one was Sunday afternoon one German plane appeared, and all around us the batteries opened up on it and the little white puffs of bursting shells began to appear around the plane. They tell us they got it, we cannot tell, for if they are hit, they can usually glide down far ahead of where we are. We were further enlivened by a couple of big shell explosions. The first one was quite a thriller, as most of us thought it was a present from Fritz, but it turned out to be the British salvage crew, hunting for shells that had not gone off, and exploding them. I am afraid we are too far back to get anything except fake thrills.

Have you seen the poem called "The Song of the Trench," written in the first months of the war by one of the British captains? I heard one of the Tommies, the same one of whom I spoke in my last letter, the sergeant, who is about to get a commission, recite it the other night. He has seen three years at the front and had some little talent besides. His rendition was really wonderful, you could not help realizing that he had been through all the experiences the poem describes. I'll try to get a copy of it and send it over. If you can realize how true it is, you will appreciate it, I'm sure.

I've been writing this all day now, I started early this morning, before the first drill period. This afternoon we were permitted to attend a field meet of one of the British battalions camped

near by and it was a regular circus. A few regular running events were augmented by a lot of special stunts, novelties such as mule races, two men to the mule changing off every so often, boot races, where the men pile their boots, they are mixed up, then run for them, hunt them up, and race back. They would get hold of a shoe not their own and throw it as far as it could be thrown. These, and several other even better were enough to keep us in howls of laughter.

Dick, Raef, Bob and I all got leave for Friday. We expect to get away at 6.30 a. m. and catch a train back at 8.00 p. m. that night. It sounds very, very good to us, you can be sure.

September 8, 1917.

We have moved again, and the last three days have been very busy ones. Thursday we were inspected by Brig Gen. B— and that night were suddenly informed that we were to be ready to leave at 8.30 the following morning. It rather upset my plans. Dick, Raef, Bob and I were all going to town the next day on leave, and in addition to that I had practically all my clothes cut on the line, soaking wet, but it mattered not to the general, so I tied them up in my bed sack, packed what I had left and lifted my pack bright and early Friday morning, September 7th. I road all day in open flat cars on a narrow gauge road that wound in and out through the most desolate part of France, through the district that has been the scene of what is supposed to have been the bloodiest battle field of the war.

A more depressing sight is hard to imagine, but it could not help being intensely interesting. Mile after mile all that could be seen was trenches, shell holes, barbed wire entanglements, battered trees, shrapnel and graves, graves in cemeteries, graves in between the rows of trenches even on the edges of the roadbed, some of them single graves, some containing several bodies, and one large cross that represented a whole battalion. For a while our narrow gage road ran along a highway once lined with large trees. It must have been a real bower of foliage. Now about all that remains are the trunks, the branches are broken and mostly blown away, the trunks themselves are shattered. It seems hardly possible that they can survive. Shell holes, shell holes, more shell holes, how any one could have lived in the hell that must have been there while they fought is hard to conceive. No signs of farms, no signs of any previous civil life, and yet the character of the country is such that it must have been a pretty rural district before the war. If Germany is to pay for all this devastation, simply the property damages to say nothing of the lives that this barren land has cost, she will certainly have to be very thoroughly beaten before she will be willing to accept terms that will in the smallest way compensate for this terrible havoc. I thought I had seen something of what France had suffered when we saw the battered villages near our last camp. It was a nothing compared with this. Our old camp ground at least looked as if it had once been used for civilian purposes and could again be so used. This shows absolutely no signs of civilization,—unless this war may be called civilized, there are certainly plenty of signs of that. Death Valley, well, it looks it. If you can visualize the name itself you have the best possible description of it. The impressions of the ride, and our present site are so varied, so horrible, that although they are but of yesterday and today, it hardly seems possible to form them into words. They remain hazy and indistinct. It almost seems as if it must be a terrible dream, that it cannot be true. Our camp is right on the edge of one of the main highways, a splendid road, in perfect condition, of course it has been fixed up since the battle a year ago, and all day long the cars stream by, trucks, limousines, tractors, motor cycles, but each and every one is a military car. I haven't seen a civilian for over two weeks, even in our last camp there were none.

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CAMBRIDGE, MASS., MONDAY, NOV. 26, 1917

Price Three Cents

## SENIOR DINNER TO BE HELD THIS SATURDAY

President MacLaurin, James P. Munroe and Other Prominent Men to Speak on Topics of Vital Interest

### CABARET TO BE GIVEN

Well-known speakers and a cabaret will form the features of the Senior Dinner to be held in the Walker Memorial next Saturday evening. Since this will probably be the last time that the Class of 1918, as a whole, will have the opportunity of getting together, it is expected that over three hundred Seniors will be present.

President MacLaurin, James P. Munroe and many other prominent men are to deliver addresses. Dean Burton, who was originally scheduled to speak, will be unable to attend owing to his being absent from the Institute on an extended trip. The speeches of the evening will be of vital importance to the Seniors. They will consist chiefly of talks upon war work and the effect on the Senior Class. It is hoped that permission will be obtained to tell of some of the work that Congress is doing at present.

The Walker Memorial has been chosen as the place for the dinner as the committee in charge feels that it was built for this purpose and that it is only appropriate that the Class of 1918 should be the first to hold its Senior Dinner there.

Since there is to be no issue of The Tech on Thursday, this will be the last announcement of the Senior Dinner.

## ADVANCE BATTALION

Lieut. Morize Tells of Attack and Artillery Preparation

In his second lecture before the members of the Advanced Battalion and the Reserve Officers' Training Corps, Friday afternoon, Lieutenant Morize discussed the preparation of men for an attack, and, in conjunction with this, organization by the artillery.

"In modern warfare," he said, "the two most important factors are the destructive power of artillery and the defensive power of earthworks. Plans for any kind of action must take these two factors into account. Now the problem of preparing infantry for an attack is twofold. First, it is required to find a formation in which the troops will suffer minimum losses, and second, it is necessary to provide the armament best suited to combat an enemy protected by earthworks."

"Before the war, and at the beginning of the present conflict, the field formations of infantry were practically the same in all the armies of the world. They consisted of open and closed formations, while companies advanced by successive rushes. The intervals between the men were so small that enormous losses were suffered in every charge; and then too, the soldiers, who were being sent against an enemy protected by trenches, were equipped with no better arms than ordinary rifles."

The French and British learned the faults of these old formations in the offensives of May and September, 1915, and they set out to discover new formations which would fulfill the requirements of modern fighting. They found that intervals of four or five paces between the men were best. Shorter intervals resulted in heavy losses, and longer in poor control by the officers. They also added to the ordinary rifle and bayonet equipment of the infantry, machine-rifles, rifle-grenades, and hand-grenades. The rifle is used against the retreating enemy in the open ground between the first and second lines of defense; the machine-rifle is valuable for sending a raking fire across the top of the enemy trenches, holding counter attacks and defending captured positions; the rifle-grenade can be used to produce a barrage-fire when the ar-

(Continued on page 2)

### Convocation to be Called by President on Receipt of Washington Message

Since the publication of the notice that President MacLaurin would call a convocation, there has been considerable uneasiness on the part of the undergraduates. The vagueness of the purpose of the convocation has magnified its seriousness and has led many men to believe that the best course to follow is to enlist immediately and not wait for the draft.

President MacLaurin has telegraphed to the Secretary of War to ascertain exactly how this new ruling will affect men at the Institute. As soon as he has received word he will call a convocation to give the students definite information as to what is really to be done.

Realizing the unrest that is being felt among the undergraduates, The Tech has endeavored to determine what older men believe to be the best course to pursue. We have interviewed professors, business men and regular Army officers and they have said almost without exception, to remain at the Institute and try as hard as possible to concentrate on our work.

They all have said that it is impossible to give advice that is absolutely sound for no one really knows what is best to do, but they all seem to agree that men at Technology ought to remain here as long as possible. Institute men will be placed in positions where their technical training is needed.

The government is making far greater effort at this time to place drafted men in positions for which they are fitted than at the time of our entrance into the war. In nearly every instance up to date Technology men who have been drafted have been placed where they could use their technical training. The files of Technology men in War Service kept by The Tech corroborate this statement.

We believe we are giving the best advice possible when we say that at least we should wait to hear the result of President MacLaurin's inquiry before rushing into service. Watch for the announcement of the convocation for it will undoubtedly come on short notice.

### TECHNIQUE NOSES OUT VICTORY BY SIX POINTS

The Tech Loses Fast Gridiron Contest to  
Year Book Men

Playing before a myriad of undergraduates, the valiant Tech eleven was forced to succumb through unfortunate circumstances to the technique 1919 aggregation, who carried away the laurels of victory by the score of 6-0. The Tech has but one excuse to offer for this humiliation: the techniques drafted two of the former's embryo scribes.

In a game replete with fast playing, headwork, and a stellar performance on the part of each individual player, it is difficult to pick out the few who acquitted themselves most nobly. Balfour, playing for technique, made the only tally of the afternoon in the opening minutes of the second quarter. Extricating himself from a human tangle, comparable in its complexity to entropy, he rushed madly onward across the line and gracefully placed the pigskin between the goalposts. Soon after this Wiswall, technique's husky center, was injured to the extent of having to leave the field.

To those few unfortunate beings among the undergraduates and the surrounding metropolis of Boston who were not present to witness this mightiest of gridiron struggles, The Tech extends its heartiest sympathies. They will never know just what they have missed. Some meagre idea of the magnitude of the game may be formed, however, when we state that near the close of the second quarter, The Tech's Editor-in-Chief, A. J. Guranovich, Jr. '18, was forced to retire from the struggle owing to an injury to his knee.

The line-up follows:

THE TECH TECHNIQUE  
Guranovich (Badger), re. le. Wilkins  
McKenney, rt. lt. Reis  
Barriger, rg. lg. Riegel  
Edwards, c. e. Wiswall (Wilkins)  
Rule, lg. rg. Mayer  
Levin, lt. rh. Ryan  
Coyle, le. re. Barney  
Bray, qb. qb. Davis  
Waterman, rhb. lh. Hackett  
Kruse, lhb. rh. Dana  
Kraenz, fb. fb. Balfour

## SECOND POW-WOW

### Prof. Cram Tells of Strategic Value of Venice

Professor R. A. Cram, of the Department of Architecture, was the speaker at the second Pow Wow, held Sunday in the Walker Memorial. Because of the large attendance, it was decided to hold the Pow Wow in the main dining room, instead of in the North dining room as was originally intended.

The subject of Professor Cram's talk was the relation of Venice to the present great war. At present, the speaker explained, Venice is in danger of capture and possible destruction by the Teutonic Allies. This event would have a profound bearing upon the possible outcome of the war. If the Germans progressed as far as the Po River, it is decidedly probable that the same state of affairs would come to exist in Italy which now exists in Russia. Germany's chief weapon in the war is the undermining of loyalty in the countries of their enemies, and important victories by the Germans in Italy would go far in accomplishing this end.

Another effect, which the conquest of Venice would have, would be the destruction of buildings, which would be absolutely impossible to replace. These buildings are practically the only remaining examples of perfect Byzantine Architecture and their destruction would be an incomparable loss to the artistic world. Before the art of Byzantium, there were two imperfect forms of art, that of the East and that of the West. The art of Greece best characterizes that which was originated in the West. This was intellectual, possessing great beauty of line and form, but lacking a logical and sympathetic use of color. The art of the East, on the other hand, was the precise opposite of this, possessing great beauty and variety of color, but lacking exact and symmetrical form. These two forms of art were first combined in the Byzantine form of art, which consisted of both perfect line and color.

Professor Cram then explained, for the benefit of those expecting to go to France, the Gothic form of Architecture. This originated among the peoples of the North, the best examples of

(Continued on page 3)

## TECHNOLOGY TO BUILD THE PRATT SCHOOL OF NAVAL ARCHITECTURE

Charles H. Pratt, Deceased, a Boston Lawyer, Bequeathes Majority of Estate for Erection of New Building

### CONSTRUCTION TO BEGIN AT ONCE

DEEMING it to be a patriotic duty Technology will begin at once the construction of the Pratt School of Naval Architecture and Marine Engineering. On account of the high cost of materials and labor it was at first decided to defer the construction until a later date, but the urgent demand for the entire Institute product of naval architects has made it necessary to build at once. There has been a course in Naval Architecture at the Institute for nearly a quarter of a century, and Professor Peabody has been in charge of it.

Charles Herbert Pratt, a Boston lawyer,

deceased May 7, 1912, bequeathed to the Institute the bulk of his fortune for the purpose of establishing and maintaining a school of this character. For a year or two there was some discussion in the courts with reference to the will, but all the decisions were favorable to the Institute. The only conditions that Mr. Pratt made were that the money should be held by trustees till the amount was three-quarters of a million, and that the building should bear on its outside its name, and within it in some convenient place a suitable bronze tablet bearing the inscription, "Presented by Charles Herbert Pratt to the loving memory of Eleaser Franklin Pratt, Catherine Blake Pratt and Franklin Stetson Pratt."

During the present year, the final decisions having been rendered, and the trustees having in the interim kept the fund well invested, the mount was a hundred thousand or so more than the required limit, so the money was placed at the disposition of the Institute authorities.

On account of the condition of labor and the high cost of materials, it was decided best, for reasons of economical use of the bequest, to defer construction until later. But the urgent demand for naval architects and draughtsmen and the fact that this demand is likely to be kept up for a number of years, has brought it home to the Corporation of Technology that the best service to the country will be to establish this school as soon as possible. As a patriotic duty of Technology, therefore, the construction of the Pratt School will begin as soon as plans can be drawn and contracts let.

For nearly a quarter of a century the Institute has conducted a department of Naval Architecture. It had its initial push during the presidency of General Francis Amasa Walker, and Professor C. H. Peabody was placed in charge. It has been so successful that the U. S. Government is now required by Act of Congress to send all naval constructors from Annapolis to finish at Technology, while from Japan, China and other countries men have come in considerable numbers to learn the art of ship construction and the Institute has been sending out its graduates into prominent places in navy yards and ship yards.

In the emergency consequent on the declaration of war Technology was able to furnish at once a strong group of men who were in training in Professor Peabody's department. It organized in May an intensive course giving to Seniors in the school a few weeks of special work and thus furnished to the government fifty more men for draught-

(Continued on page 3)

### To be no Thursday Issue

Since exercises have been suspended over Thanksgiving day there will be no regular issue of The Tech for that date. The next issue will appear Monday, December 3.

### I. C. A. A. A. MEET

#### G. F. Halfacre '18 Finishes Third Over Van Cortlandt Course

In the I. C. A. A. A. cross-country meet held last Saturday in Van Cortlandt Park, New York, Halfacre '18, starred for the Institute. Coming in third, he was followed by McCarten '19, who captured fifth place. Halfacre's time was 33 minutes 53 seconds and McCarten's 34 minutes 29 seconds. Technology finished fourth with a score of eighty-five.

Accompanied by Coach Kanaly, Dr. Johnson and Managers McClintic '19, and Talcott '20, seven members of the Technology cross-country team left Cambridge last Thursday evening. Technology's representatives, besides Halfacre and McCarten, were H. A. Herzog '19 (captain), H. R. Dorr '20, G. R. Owens '20, A. G. Zubiria '19, and R. M. Rimbach '18.

Five other colleges, Pennsylvania, Cornell, Columbia, Dartmouth, and the College of the City of New York, entered men, and Dresser of Cornell finished first in thirty-three minutes flat.

The team scores were as follows: Pennsylvania, 38; Cornell, 55; Columbia, 74; Technology, 85; and Dartmouth, 96. The College of the City of New York started only four men, which gave it no chance to figure in the team score, which requires that at least five men make up a team.

The order of the finish was as follows: I. C. Dresser, Cornell; L. L. Glover, Pennsylvania; G. F. Halfacre, Technology; R. B. McHale, Pennsylvania; G. C. McCarten, Technology; H. C. Alvery, Dartmouth; H. G. Larson, Columbia; H. A. Price, Pennsylvania; A. Turner, Columbia; W. M. Cummings, Pennsylvania.

**THERE WILL BE AN IMPORTANT NEWS MEETING TOMORROW AT 1:05 O'CLOCK IN THE TECH OFFICE. ALL CANDIDATES AND MEMBERS OF THE NEWS STAFF ARE REQUIRED TO BE PRESENT.**

### CALENDAR

Monday, November 26, 1917  
2.00 P. M.—A. I. E. E. Trip. Main Lobby.

4.45 P. M.—Menorah Society Meeting. Room 10-275.

Tuesday, November 27, 1917  
7.30 P. M.—A. I. E. E. Meeting, Smith Hall.

Wednesday, November 28, 1917  
7.30 P. M.—English High School Club Meeting. Room 2-190.

Friday, November 30, 1917  
3.00 P. M.—Professor Hayward's Talk. Room 3-270.

Saturday, December 1, 1917  
6.30 P. M.—Senior Dinner. Walker Memorial.

7.00 P. M.—President MacLaurin's Reception for 1919 and 1921. President's House.



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Although communications may be published unsigned if so requested, the  
name of the writer must in every case be submitted to the editor. The Tech  
assumes no responsibility, however, for the facts as stated nor for the opinions  
expressed.

The Editor-in-Chief is always responsible for the opinions expressed in the  
editorial columns, and the Managing Editor for the matter which appears in the  
news columns.

#### IN CHARGE THIS ISSUE

A. Kruse '20.....Night Editor  
G. Russell Steininger '21.....Assistant Night Editor

MONDAY, NOVEMBER 26, 1917

#### CONCERNING THE DRAFT

THE undergraduate body has acquired an attitude lately which  
will do it more harm than good, and which will have a telling  
effect on its success. The recent articles in the newspapers  
anent the draft have thrown the students into a state of doubt and  
anxiety. The men who have registered are undoubtedly trying to  
do what they think best both for the country and for themselves,  
but that has apparently been nothing more than neglecting their  
work, talking about leaving, and making uncertain plans which  
will lead nowhere. Many may find it advisable to leave, but while  
they are here they can at least make the most of it and continue to  
work with diligence.

The younger men have no cause whatsoever for exhibiting the  
consternation which has begun to run riot among them since the  
announcement of a probable draft of men from 18 to 21 years of age.  
This announcement was at most a mere detail of an account dealing  
with the new draft. No official word has been received that there  
will be such a draft, and even if there should be one, it must needs  
take place after the second draft. A little calm thinking will point  
out the folly of the needless anxiety on the part of the younger men,  
and will do much toward preventing the older men from hasty and  
uncalled for action.

#### THE SENIOR DINNER

SATURDAY evening the Senior Dinner, the first to be held in  
the Walker Memorial, will furnish probably the last occasion  
which the 1918 men will have of meeting in their present numbers. Some of the fourth year men have given the impression that  
they think that the dinner should be held at one of the hotels; on  
the contrary, the Walker Memorial is the one place of all where the  
dinner should take place. The building has been turned over to the  
government, but such affairs as the recent Dormitory Dance and the  
coming dinner in no way interfere with its use by the government  
school. The dinner will be held at home, so to speak, and this fact  
alone is cause enough for saying that the Walker Memorial is the  
appropriate place.

An excellent program of speakers has been arranged and the  
dinner, coming at such a critical time as the present, will be one of  
the most memorable of Senior Dinners.

#### WAKE UP

LAST Friday evening the Civil Engineering Society held a  
meeting and was addressed by Mr. Harrington, President of  
the Boston Chamber of Commerce. Only a handful of men  
were present. This is typical of the present attitude of Technology  
undergraduates. Talks such as the one which Mr. Harrington gave  
should be regarded by the undergraduate as a part of his education.  
Surely one derives as much, if not more, benefit from such a talk as  
from any lecture given in the regular courses. Will we come out  
of our shells and make the most of our opportunities of learning  
something outside the curriculum of the Institute?

The Tech takes pleasure in announcing the election of the following  
men to positions on the News Staff: John W. Barriger, III,  
'21, Edward Edwards '21, Hartwell Fleming '21, Sanford J. Hill '21,  
Robert J. Lawther '21, Harold L. Levin '21, John T. Rule '21.

#### MUSICAL CLUBS ANNOUNCE PLANS FOR WINTER CONCERT

Special Program and Dancing to Be Features of Entertainment

The Combined Musical Clubs have announced the plans for the annual Winter Concert which is to be given this year, as previously at the Hotel Somerset. The date set for the affair is Thursday evening, December 13. This is usually the first all Technology social function of the year and has always been carried through with the greatest enthusiasm. The ball room of the Somerset is an ideal place for the concert, being splendidly equipped for dancing, while improved seating and stage arrangements should make the musicale most enjoyable.

The program has been so arranged as to bring the best numbers of the clubs, quartets and soloists into a lively two-hour concert. One or two novelties will be rendered as well and it is certain that the entire program will be enjoyable.

The Glee Club is doing remarkably well under Leader J. R. Poteat '17; E. C. Schultz '19, leader of the Mandolin Club, has a wealth of material from which to choose and has built up a capable organization. The Banjo Club, in charge of E. D. Harrington '18, author of this year's Tech Show, has a formidable list of popular numbers and the soloists also appear promising. C. T. Proctor '20, whom all remember from last year's Spring Concert, is playing the xylophone and C. J. Parsons '19, J. C. Caldwell '19 and Earl Collins '18, all of the Tech Show, are with the Clubs this year.

There will be dancing from 10.00 to 2.00 o'clock as in former years and the music will be rendered by Lowe's orchestra. It is the wish of the management to the price and they will try to give the affair at the usual cost of admission, two dollars per ticket.

#### ADVANCE BATTALION

(Continued from page 1)  
tillery barrage is not available, to stop counter attacks and to destroy machine-guns, and the hand-grenade is necessary in order to reach the enemy in his trenches and dugouts, when the attacking force has reached his first line of defense.

"Reserve troops, however, and troops which are to cross the ground between the first and second enemy lines, require a different formation from the troops making the first attack. The requirements here are contradictory. An open formation is needed to preserve the troops from heavy losses caused by the enemy's fire, and a closed formation is needed in order to keep the direction and to keep the men under control. The problem was solved by the formation of small squad-columns. The leader marches in front of his men and is responsible for keeping the direction. The advantage of an open formation has been gained by enlarging the distances between the squads."

Before closing his talk on the preparation of troops for attack, Lieutenant Morize spoke of the importance in the warfare of today of "specialists," such as bombers, grenade-throwers, and machine-gun operators, and of the careful training and practice given such men in France, before they are permitted to enter the fighting.

In beginning his discussion of the preparation by artillery for an attack, Lieutenant Morize said that the newspaper headlines declaring that the latest British drive had been effected "without artillery" were extremely misleading. He said that heavy shell-fire in those sectors in which the attack was made had been reported for the last few days before the beginning of the offensive, and that the attack had in all probability been made with the help of artillery to destroy the enemy's positions, but without the help of "artillery" to lower the barbed-wire in front of his trenches. This, he said, had been done by the tanks, which were nothing more than artillery-pieces in armoured cars.

"The uses of artillery in the present war," he continued, "may be classified under five heads: (1) The silencing of enemy batteries; (2) the destruction of enemy positions; (3) the harassing of the enemy to prevent him from bringing up reserves, supplies, etc.; (4) the providing of barrage-fire. Under this head comes also the use of artillery in the tanks; (5) the support of changes in position, as the artillery must always be ready to advance with the infantry."

In order to illustrate the tremendous expenditure of ammunition in all attacks, Lieutenant Morize gave some estimates of the number of shells used in destroying enemy positions. Five hundred shells are allowed for the lowering of twenty-five yards of barbed wire entanglements, nine hundred shells for fifty yards of entanglement, and twelve hundred shells for twenty-five yards of heavy entanglement.

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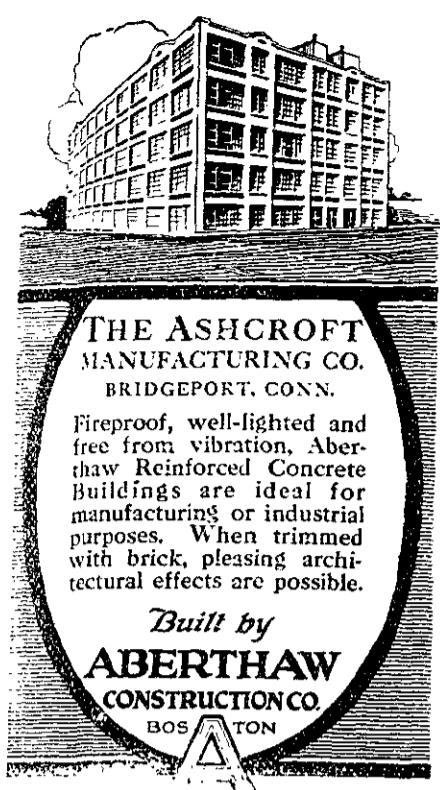
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## ROSENFIELD AND RAPKIN

ENGLISH HIGH SCHOOL CLUB SMOKER WEDNESDAY NIGHT

The Boston English High School Club of Technology will hold its first smoker this year on Wednesday evening, November 28, in room 2-190 at 7:30 o'clock. Several speakers well known to all the men will be present, including Mr. Barrows, Mr. Stone, Mr. Miller and Mr. Benson, consulting engineer for the "Record." Coach O'Flaherty has consented to come and tell the men what may be expected of the English High team on Thanksgiving. All the old cheers and songs will be rehearsed, and refreshments are to be served.

Arrangements have been made for the members of the club to attend the game in a body. Tickets will be on sale at the meeting. All who expect to attend are requested to meet at 9:30 a.m. just inside the gate at Fenway Park.

## ELECTRICALS VISIT BOSTON WATER PUMPING STATION

Another Trip to Be Made Today to Same Plant

Last Thursday afternoon twenty members of the student branch of the A. I. E. E. took a trip to the Chestnut Hill Pumping Station, to investigate the method of operation and the machinery used to keep Metropolitan Boston constantly supplied with fresh water. This station is the largest water pumping plant in New England, having a total maximum capacity of two hundred and fifty million gallons per day. At present thirty-five million gallons per day are being pumped to the Hub, under a head of one hundred and twenty feet.

The water supply is in Clinton, Mass., and the pipe line is run in one large main to the Chestnut Hill Station where it is distributed to several ducts, the largest of which is forty-eight inches in diameter. Part of the water supply is pumped to the city of Swampscott and the rest is led to Boston proper and a few outlying districts.

The station is divided into two separate plants to keep up an unbroken supply of water. The first of these has two Dean straight coil boilers of three hundred boiler horsepower each, and three horizontal tubular boilers of four hundred boiler horsepower each, operating at one hundred and eighty-five pounds steam pressure. The steam, after passing through the pumping engines, is condensed to a two inch vacuum by running the return steam pipes through the cold fresh water supply in the mains. This part of the station consumes twenty tons of coal per day, and keeps a month's supply on hand in case of a sudden shortage.

The second division of the station is equipped with five vertical low-pressure boilers of a capacity of three hundred boiler horsepower each.

The water supply for the steam in the boilers is run through auxiliary heaters and economizers, to have an efficient circulatory system. The steam of both divisions is led to triple expansion reciprocating engines turning at the seemingly low speed of nineteen revolutions per minute, but this slow speed is accounted for in the fact that the engines are about three stories in height, weigh seven hundred and eighty tons each, and must be set on reinforced concrete foundations twenty feet deep. The lighting of the Chestnut Hill Pumping Station is effected by a one hundred and ten volt fifteen K. W. generator turned by a Fitchburg engine.

A second trip to the station will be conducted this afternoon at 2:00 o'clock, starting in the main lobby.

## PRATT SCHOOL

(Continued from page 1)

It is its intention to establish similar courses in the current school year when good material is in sight for such work. All this it has done in cramped quarters, and it will need for its future work the facilities that the benefaction of Mr. Pratt will afford it.

The Pratt School of Naval Architecture and Marine Engineering will occupy the most prominent place in the group of buildings to extend along Massachusetts Avenue. It will be placed in line with the structures now devoted to Civil Engineering and will be of the same type of architecture, pilaster treatment in classic style, with dignified central doorway and corresponding accentuation of the entablature. It will extend some two hundred and fifty feet along the front with the standard depth for the Technology structures, sixty feet.

The plannings for the interior are not yet completed, but there will be a large draughting room one hundred by sixty feet, a drawing room for Naval Constructors, and one for the students in aeronautics, each sixty by fifty feet, with a number of lecture rooms of various sizes. There will be accommodations for the library and museum, offices for the instructing staff, and a number of special utility rooms, including model room, shop for preparing materials, paint shop, etc.

Whether the school will be furnished with towing tank in the basement is still undecided, the Institute having an ideal one for out-of-door conditions in the Charles River Basin. There are in the country two indoor towing tanks, one at Washington being superb in all its appointments, and another at Ann Arbor, which is fitted for special lines of investigating work. The question will, however, be settled quickly in order that the detail plans may be pushed and the contracts let.

## OFFICIAL FROM THE M. I. T. Committee for National Service

JAMES W. ROLLINS '78, Chairman

## WASHINGTON BUREAU

908 Union Trust Building

RAYMOND W. FERRIS '08, Secretary

A direct means of communication between the Technology and the National Government. If there is anything you wish to know in Washington, write to the Technology Bureau

The Official Bulletin recently carried a notice that Private Amile B. Gaillae '18 (II), of the 101st Engineers had died in France of broncho pneumonia, contracted while connected with the Am. Exped. Force.

Raymond E. Bell 05 (II), is at present located in Washington with the Purchase Section of the Gun Div. of the Ordnance Dept.

B. S. Hipeckley '99 (II), is reported to be located in Washington with the Fuel Administration. His office is room 6226, Department of the Interior Building, F and 17th Streets, Washington, D. C. W. T. Spalding '10 (IV), of Honolulu, stopped at this office a few minutes before continuing his journey abroad. He holds a commission as Captain in the King R. C., but will not be called to active duty until he has completed work for Stone and Webster in connection with the construction of Base Ordnance Depots. His address will be 2 Rue Italiens, Paris, France.

Capt. H. S. Rapelye '08, has been detailed as Aid De Camp to Major Gen. Kuhn and is probably now somewhere in France.

In the last few days we have had visits from the following: John L. Jones '03 (II); C. W. Hubbard '09 (II); R. F. Gants '16 (VI); J. M. Evans '16 (II); H. A. Pickering '15 (I), and Samuel M. Ellsworth '16.

## DEAN BURTON ON NINE THOUSAND MILE TRIP

For the second time since July Dean A. E. Burton is undertaking a nine thousand mile trip about the country in the interests of the schools for Deck Officers. Some forty schools have already been established by Henry Howard for the U. S. Shipping Board, the organization of which has been turned over to Professor Burton.

Dean Burton left last Friday evening for New York, where two private schools will take up the standardized instruction in navigation that he has outlined. These are the Seamen's Church Institute and Upmark's School. The trip will be continued to Newport News where a school is to be established and to Norfolk where the existing school will start with a new group of men. Professor Burton will then visit

the schools on the Great Lakes and then strike across to the west coast, where it Bellingham, Washington, a new school is to be inaugurated by him. His trip south along the coast will have stops at Tacoma, Portland, San Francisco, San Diego, San Pedro and Los Angeles, and there the line of travel will be deflected to Galveston and New Orleans. A run through the Atlantic coast schools from Jacksonville north will complete the tour of inspection.

These schools have proved of the greatest value, for today more than one thousand men stand ready to take charge of the new merchant marine. The men have had sea-faring experience and by the few weeks of intensive training in the mathematical specialties of the work have become thoroughly competent deck officers. The moment the new steamships are ready Mr. Howard and Dean Burton will have the men on hand to command them, and in the meantime the graduates of the schools will be gaining experience on the vessels of coastwise lines.

## What Technology Did Towards the Y. M. C. A. War Fund

Total number of pledges .....	1,235	\$8,089.88
Total amount subscribed .....	1,030	
Number of student pledges .....	166	
Number of Instructing Staff pledges .....	39	
Amount subscribed by students .....	\$5,922.38	
Amount subscribed by Instructing Staff .....	1,730.00	
Amount subscribed by unclassified (extra)...	437.50	

The above figures are subject to revision as pledges are still being handed in.

FRED. R. KNEELAND, Treasurer.

## PRESIDENT AND MRS. MACLAURIN RECEIVE 1919 AND 1920

Reception Well Attended—Juniors and Freshmen to be Guests December 1

President and Mrs. MacLaurin held the first undergraduate reception at their new home Saturday evening when they received the Seniors and Sophomores. The reception was very interesting, affording an opportunity to meet Dr. and Mrs. MacLaurin in an informal way. The two classes were well represented, considering the fact that many were unable to attend, because of the dormitory dance being held the same evening.

During the course of the evening the fellows sang the favorite Technology songs; and it was apparent that what they may have lacked in singing ability was made up for by the spirit shown. A unique and enjoyable feature of the reception were the songs, "Cleopatra" and "Sir Galahad," sung by Charlie Parsons '19. "Charlie" gave these clever pieces in his usual effective and thorough manner.

The President's next reception, to be given for the Juniors, freshmen, and those unable to attend Saturday evening because of the dormitory dance, will be held Saturday, December 1, at 8:00 o'clock.

## MR. COWDRAY DESCRIBES AIRPLANE WING TESTS

On Friday evening Mr. Cowdry, of the Testing Materials Department, gave an interesting lecture to the Aero Club on "The Testing of Airplane Wings." The principal topic of the talk was a description of a new method of testing wing ribs that has been devised by Mr. Cowdry.

Before outlining the method of applying the maximum load, Mr. Cowdry showed how this factor had been previously obtained. When an airplane manufacturer wanted to know how strong a wing rib was, he would support one at the points where the spars of the wing structure passed through and apply the load at these places. Then when the rib gave way it was concluded that the breaking point had been reached. Applying the load at only two points would hardly duplicate the actual conditions.

It was to remedy this that Mr. Cowdry was consulted. He saw how hard it was to duplicate the actual conditions of flight in the laboratory. First it was necessary to determine what these conditions were. Fortunately the Aeronautical Department was able to supply the curve of forces on airplane wings. This curve showed the maximum load applied one-fifth the distance from the front of the wing decreasing to zero at both ends. There then remained the problem of applying this load to a wing rib in the laboratory.

Next Friday evening at 8:00 o'clock, Professor Hayward, head of the Testing Materials Department, will lecture in Room 3-270 on "Wires and Turnbuckles."

## POW-WOW

(Continued from page 1) which are to be found in France. These buildings and ruins have passed through several destructive wars, of which the Reformation and French Revolution were the most disastrous. There are, however, several examples of Architecture well worth seeing situated between Paris and the present line of battle.

The speaker concluded his interesting talk by emphasizing the importance of the work to be accomplished after the war. During the late centuries, much has been lost in the way of philosophy and religion, which must be brought back to make our civilization a lasting one. Above all, political, financial and industrial empires must be completely destroyed.

After the conclusion of Professor Cram's talk, refreshments were served and the fellows were further entertained by Professor Pierse's instrumental trio, which ably rendered a selection by Beethoven.

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## Technology Men in War Service

The Tech wishes to print the names of Technology men in War Service, whether in a military or industrial capacity, together with the branch of such service with which they have allied themselves.

Notification of any corrections or changes in the information given in this column will be appreciated. Address any information of this character to the Managing Editor, The Tech, Massachusetts Avenue, Cambridge, Mass.

### Class of 1881

G. L. CABOT, Lieut. U. S. N. R. Cl. 5.

### Class of 1889

J. W. CABOT, 2nd Lieut. and Field Clerk in Q. M. C.

H. D. EMERSON is in Engrs. Reserve Corps.

### Class of 1890

S. D. FLOOD is an Ensign in U. S. N.

### Class of 1891

J. CAMPBELL, Major Eng. Detached.

### Class of 1892

B. P. DuBOIS, Capt. in Pay Corps, U. S. N.

### Class of 1893

W. A. CLAPP, Q. M. C. War Dept. C. E.

W. COPELAND, Priv. Corp. Pa. N. G.

### Class of 1896

W. H. CLIFFORD is a Maj. N. A. Inf.

### Class of 1898

J. W. FARLEY is a Maj. in 303d Inf.

O. R. C.

### Class of 1899

J. K. CLARK, M. M. 2nd U. S. N. R. F. Sub. Chaser.

C. D. DREW, Capt. 11th Railways Engrs., in France.

### Class of 1901

F. B. DRISCOLL, Lieut. Comdr. U. S. N. R. F.

M. ESTABROOK, Capt. O. R. C. Inspec. Small Arms.

### Class of 1902

W. H. COMINS, Capt. I. O. R. C. 164th Dep. Brig.

### Class of 1903

C. H. COOPER, Prov. Lieut. C. A. R. C. C. Training Course.

G. C. DANFORTH, Capt. Eng. O. R. C.

### Class of 1904

W. L. CRONIN, O. R. C.

### Class of 1906

E. P. CHASE, U. S. N. R. E. Spec. Inspec. and Test.

W. COUPER, Maj. O. R. C. Const. Q. M.

H. V. FLETCHER, 1st Lieut. E. O. R. C.

### Class of 1907

W. T. CARPENTER, 1st Lieut. San. Corps.

P. DODGE, 1st Lieut. Asst. Law Officer, Ord. N. A.

### Class of 1908

A. S. COHEN, 1st Lieut. Ord. Sec. U. S. R.

J. H. DAVIDSON, Capt. Comdr. 19th Training Bu. Inf.

D. DICKINSON, J.R., Act. Asst. Surgeon, U. S. N.

F. A. FENGER is an Ensign, N. R. C.

### Class of 1909

S. CABOT, Capt. N. A. Dep. Brig., 76th Div.

W. D. CLARKE is a Capt. in the 5th U. S. Cavalry.

H. H. DOLE is an Ensign, U. S. N. R.

H. C. ELTON, 1st Lieut. Co. I, E. O. R. C.

W. C. FERGUSON, 1st Lieut., O. O. R. C.

### Class of 1910

A. B. COURT, Nav. Const. Lieut. Comdr. U. S. N. (Reg) Const. C.

C. E. GREECY, 1st Lieut. Sig. O. R. C.

W. N. DREW, 2nd Lieut. 323d F. A. N. A.

### Class of 1911

H. W. CHURCHILL, 1st Lieut. U. S. R. Ord. Inspec. Sect.

W. C. DAVIS, JR., is a Corp. in the 318th Inf.

C. EDWARDS, JR., 2nd Lieut. 307th F. A. Battery D.

J. N. FRENCH, Aviation.

### Class of 1912

D. BOYD, JR., Capt. Ord. U. S. A. O. R. F. W. CALDWELL, Sig. C. Airplane Prop. Expert.

E. CANFIELD, JR., is a Major in the Q. M. C.

H. H. CATCHING, Sergt. in Avia. Sect. Sig. C.

J. H. CATHER, 1st Lieut. in San. Corps and Avia. Constr.

R. N. DOBLE, 1st Sergt. 301st Engrs. N. A.

H. C. DUNBAR, 3rd Officer, U. S. Shipping Board.

W. S. ETHERIDGE, 1st Lieut. Ry. Co. A. 12th Eng.

E. E. FERRY, Seaman, U. S. N. R. F. C.

F. R. FULLER, Capt. 39th Inf. Reg. U. S. A.

### Class of 1913

C. F. CAIRNS, Naval Industrial Reserve.

H. N. CARLSON, in charge of Sig. and Radio Dept. A. and NSc.

A. W. CARMICHAEL, Asst. Const. U. S. N. Mine Sweepers.

R. B. CROES, C. A. C. T. C. for R. Officers.  
T. L. DAVIS, 1st Lieut. Ord. Insp. Sect.

H. W. DEW, 2nd Lieut. Q. M. C. N. A. H. ELWELL, Sergt. Co. H. 302d Inf. G. W. FORRESTER, Priv. 304th Eng. Corps, N. A.

### Class of 1914

A. D. CHANDLER, 1st Lieut. E. O. R. C. 21st Co. C.

T. F. COMBER, JR., Private in Infantry.

J. H. CURRIER, Ensign, U. S. N. Eng. T. J. DUFFIELD, 1st Lieut. San. Corps, N. A.

W. C. EBERHARD, Co. C., 301st Inf., N. A.

R. ERGIAN, 1st Lieut. Amer. Univ. T. C.

K. B. EVERSON, 1st Lieut. in the 58th Infantry.

### Class of 1915

C. H. CALDER, Priv. N. A. Amb. Sect. 540.

S. E. CLARK, 2nd Cl. Seaman, U. S. N. R. F. C.

G. H. COLLINS, 1st Lieut. Eng. Co. F., 101st Reg. 26th Div.

E. F. CONWAY, Sgt. 1st Cl. Q. M. C. N. A.

F. A. W., 2nd Lieut. U. S. N. G.

D. DEFREMERY, Mach. Mate, Naval Reserve.

R. O. DELANO, Sgt. in 301st Engrs. Corps, N. A.

M. J. DODD, Priv. in Signal Reserv. Corps.

C. E. ELLICOTT, 1st Lieut. Co. F., 105th E. O. R. C.

J. B. FRANKS, JR., Prov. Capt. Transp. of U. S. A.

### Class of 1916

J. B. CARR, 2nd Lieut. Co. 4, Eng. O. T. C.

C. E. CARSTENS, Priv. Co. A., 27th Engrs. Corps, N. A.

D. H. CHOATE, 2nd Lieut. Battery A, 332d Field Artillery.

R. W. CUSHMAN, Lieut. Q. M. C. 301st Inf.

L. H. DELABARRE, Amer. Amb. Field Service.

B. A. CLARK, Engineer Corps.

## NEW BLAST FURNACE FOR PIG IRON INDUSTRY

Dr. Loewenstein to Address Combined Engineering Societies

The Tuesday meeting of the student branch of the A. I. E. E., to be held at 7:30 o'clock in Smith Hall, will be addressed by Dr. L. C. Loewenstein, Consulting Engineer of the General Electric Co., on the subject of "Electric Blast Furnace Processes." Dr. Loewenstein has worked on these furnaces and their use under the research department of his company and has succeeded in developing one which promises to revolutionize the iron industry in that it obtains thirty per cent more iron from the ore than any other process. This talk will be of special interest because it is the first time that the new process has been put before any branch of the scientific world. Some time after this meeting of the student branch, the same paper will be presented at the A. S. M. E. in New York, and then only will be published in current scientific publications. The Mechanical, Civil, Chemical and Mining Societies and all others interested are invited to attend the meeting.

## MANY SENIORS TO RECEIVE DEGREES IN JANUARY

The Faculty action at the last meeting's of greatest consequence in placing the Institute in still better position to do service for the country, and in defining more directly the value to the students of whatever extra work they may have undertaken during the summer. In addition there were started at the meeting movements which when a little more developed will make of Technology officially what it was in fact the last school year, a all-the-year-round institution.

With the intensive courses, the cram

courses for the students who wished to take military examinations, the two stu-

dent camps, Sophomore and Junior, it

was all summer long a hive of industry

with a student attendance of its regu-

larly registered men of nearly half the

normal in-season number. The burning

question among the students has been

whether such work will be recognized

anywhere, and so far as the Juniors are

concerned is answered by the Faculty

vote. This is to the effect that the Ju-

niors who took special summer work

and who are now taking intensive

courses meant to cover both terms of

the Senior year in one term and who

leave the Institute not earlier than Jan-

uary 1, 1918, will be recommended for

degrees without waiting for the regular

time in June. This will permit the plac-

ing of a goodly group of technically

trained men in service for the country,

without loss of standing or delay in the

conferring of degrees which the tech-

nical regulations of the school might

suggest. Those Seniors who have com-

pleted the necessary work will graduate

in January on recommendation by the

heads of the departments in which they

are studying.

## PROFESSOR KENELLY SPEAKS BEFORE THE WALKER CLUB

### Hold Reception to Students From Other Colleges

At the meeting of the Walker Club held last Thursday, Professor Kenelly, Chairman of the Faculty, was introduced as the speaker of the evening in the absence of Professor Sedgwick. He spoke of their duty to the Institute and to the United States in regard to the war.

This meeting was the annual reception for all students entering Technology from other colleges. About seventy men attended. Smokes, that is, the unique "corncocks" of the Walker Club, were passed, and President Parsons '19, after praising the spirit of the crowd, introduced Professor Kenelly.

He first recited a few of the annals of the society. This was organized twenty-four years ago in honor of General Walker. The purpose was not to study, but to give its members a good time. "My estimate of a club," said the Professor, "is in inverse proportion to its dues." He emphasized the necessity of being in touch with men, and of not being buried in one's studies.

He advised the men not to enlist immediately if they thought that they were to be drafted.